

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: HOWARD, et al.
Serial No.: 09/456,647
Filed: December 8, 1999
Group No.: 2163
Examiner: Romain Jeanty
Title: ELECTRONIC PUBLICATION
DISTRIBUTION METHOD AND SYSTEM
Attorney Reference: 35-95-010.1

Assistant Commissioner
for Patents
BOARD OF PATENT APPEALS
AND INTERFERENCES
Washington, D.C. 20231

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REPLY BRIEF

Pursuant to the provisions of 37 C.F.R. §1.193(b)(1), this Reply Brief is filed in response to the Examiner's Answer (Paper No. 15) mailed on October 2, 2001. A separate transmittal letter containing an appropriate certificate of mailing serves to transmit this Reply Brief in triplicate.

ARGUMENT

In the Examiner's Answer, Section 11 runs from the middle of page 5 to the top of page 8, and is entitled "Response to Argument". In the first paragraph of Section 11,

the Examiner cites two court cases drawn from MPEP §2111, and states that "the examiner is not limited only to Appellant's interpretation of what is being recited in the claims. Rather, office personnel are to give claims their broader reasonable interpretation in light of the supporting disclosure". Applicants note that this line of cases includes not only the two cases cited by the Examiner, but also a more recent third case which is also discussed in MPEP §2111, but which the Examiner neglected to cite and discuss. This third case is *In Re Cortright*, 165 F.3d 1353, 49 USPQ2d 1464 (Fed. Cir. 1999). A courtesy copy of the *Cortright* decision is enclosed. In *Cortright*, the Federal Circuit emphasized that the broad interpretation of claims by the PTO has limits, holding that the PTO's "broadest reasonable interpretation" of the claims must be consistent with the interpretation that those skilled in the art would reach, taking into account certain factors such as the applicants' disclosure.

As noted above, the Examiner's Answer states that the PTO is not limited to Applicants' interpretation of the claims, and that the PTO must construe the claims broadly. This implies that the arguments presented in Applicants' Appeal Brief were based on an unduly narrow interpretation of the claims. However, Applicants respectfully submit that the arguments in the Appeal Brief are based on a proper interpretation of the claim language, which is reasonable and consistent with the interpretation that those skilled in the art would reach. As to most claims, the Examiner's Answer presents an unreasonable interpretation, obtained not through permissible techniques of broad interpretation, but instead by simply reading distinctive limitations out of the claims. In particular, the Examiner chooses to ignore distinctive claim limitations where the subject matter of the claim limitation

is missing from the prior art, as discussed in more detail later. Obviously, this is not proper.

Each claim on appeal stands rejected under 35 U.S.C. §102 as anticipated by Reilly U.S. Patent No. 5,740,549. Applicants respectfully submit that, when Reilly is considered in detail, Reilly simply does not disclose certain distinctive features that are recited in Applicant's claims, as discussed below. In particular, the comments below respond to the treatment of each claim group in the Examiner's Answer.

Group 1 (Claim 8)

Independent Claim 8 recites "presenting the advertising item to the user of the electronic publication in response to the access of a specific content item" (emphasis added). Thus, user access to the specific content item will cause presentation of the specific advertising item. For example, user access to a specific article about a bicycle race, such as the Tour de France, could trigger presentation of a specific advertisement about a specific bicycle. The Examiner's Answer asserts that the Reilly patent discloses "displaying the advertisement to the user when the user accesses a news items (i.e., 'specific content item')". However, this is not what Reilly actually discloses.

More specifically, Applicants' Appeal Brief discusses in detail the internal operation of the Reilly system, and explains that Reilly displays advertising items from a queue in a predetermined sequence, and that this predetermined sequence is not affected in any way by user access to a specific news item. Reilly has no way to link or synchronize the display of any particular advertising item to any particular news item. Reilly thus does not disclose what the Examiner asserts it does. In order to read Claim 8 onto the disclosure of Reilly, the distinctive limitation from

Claim 8 which is quoted above must be read completely out of Claim 8. As noted above, the Examiner asserts that Claim 8 is being interpreted broadly, but it is respectfully submitted that reading a limitation out of Claim 8 goes well beyond the bounds of permissible broad interpretation, and effectively involves rewriting Claim 8. Reilly's disclosure is simply inconsistent with the distinctive feature recited in the above-quoted language from Claim 8.

Group 2 - Claim 26

Claim 26 depends from Claim 8, and refines the subject matter of Claim 8 by reciting that the advertising item of Claim 8 is presented in response to user access to "a predetermined part of" the specific content item. As noted above, the discussion of Claim 8 in the Examiner's Answer indicates that "a news item" in Reilly corresponds to the "specific content item" recited in Claim 8. Consequently, in addressing Claim 26, the Examiner needs to demonstrate that Reilly teaches the display of a particular advertising item in response to user access to "a predetermined part of" the news item of Reilly. The Examiner's Answer fails to do so.

More specifically, the Examiner's Answer asserts that, in Reilly, clicking on a "category" button constitutes accessing "a predetermined part of" a specific content item. But Applicants' Appeal Brief discusses in detail the internal operation of the Reilly system, and explains that a "category" in Reilly is not a part of a news item. To the contrary, a category in Reilly contains multiple news items, and thus a news item is part of a category, rather than vice versa. In order to even begin to read Claim 26 onto Reilly, it is necessary to read completely out of Claim 26 both the distinctive limitation from Claim 26 which is quoted above, and also the distinctive limitation from Claim 8 which is

quoted above. The Examiner asserts that Claim 26 is being interpreted broadly, but it is respectfully submitted that reading these two distinctive limitations out of Claim 26 goes well beyond the bounds of permissible broad interpretation. Reilly's disclosure is directly inconsistent with the distinctive features recited in the above-quoted language from Claim 26.

Group 3 - Claims 7 and 24

Claim 7 recites "presenting the advertising item to the user of the electronic publication after passage of a predetermined amount of time during which the electronic publication has been in use". This limitation is directed to a feature which is discussed at lines 1-14 on page 23 of Applicants' specification. It is clear from this portion of Applicant's specification that the "predetermined amount of time" in question begins at a point in time when a person starts using the electronic publication, and ends at a point in time when the advertising item is presented. This is the amount of time during which the publication "has been in use". Applicants' Appeal Brief is also very clear and consistent on this particular point (for example in the last five lines on page 4, and in lines 16-20 on page 17). In particular, the Appeal Brief emphasizes that the amount of time during which the publication "has been in use" is a time interval which begins when the user starts using the electronic publication, and ends with the presentation of the advertisement.

The Examiner's Answer notes that successive advertisements in Reilly are each displayed for a fixed time interval of 30 seconds. This means that each new advertisement is presented at the end of a predetermined time interval during which a preceding advertisement was being displayed. However, Applicants' Appeal Brief discusses in

detail the internal operation of the Reilly system, and explains that these 30-second time intervals of Reilly do not begin when the user first launches the program which provides user access to Reilly's electronic publication. The limitations of Claim 7 mean that a particular advertising item will be presented at the end of a time interval which begins when the user starts using the electronic publication, whereas no advertisement in Reilly is subject to such display. In Reilly, the display of any advertisement is conditional on the user first selecting the category to which the advertisement has been assigned, and the user may never select that category.

As noted above, the Examiner's Answer cites two cases (drawn from MPEP §2111) that discuss broad claim interpretation, but neglects to cite a third and more recent case (also in MPEP §2111), which is *In Re Cortright, supra*. *Cortright* holds that the broadest reasonable interpretation of the claims must be consistent with the interpretation that those skilled in the art would reach, taking into account factors such as the applicants' disclosure. Taking into account the disclosure of the present application (including lines 1-14 on page 23 of the specification), it is respectfully submitted that the most reasonable interpretation of Claim 7 consistent with the interpretation which will be reached by those skilled in the art is that the time interval "during which the electronic publication has been in use" is a time interval that begins when the user starts using the electronic publication and that ends with the presentation of the advertisement. The 30-second time intervals from Reilly which are discussed in the Examiner's Answer do not include any time interval that begins when the user starts using the electronic publication, and that ends with the presentation of a particular advertising item. It is therefore respectfully

submitted that the Examiner's broad interpretation of Claim 7 goes well beyond the broadest reasonable interpretation which the Patent Office has instructed examiners to use in view of the *Cortright* decision (according to MPEP §2111). The Reilly patent simply does not disclose the specific distinctive feature which is recited in the above-quoted language from Claim 7.

Group 4 - Claim 25

Independent Claim 25 recites a refinement of the subject matter of Claim 7, which involves "maintaining information about the amount of time which the user spends reading the electronic publication during access thereto, and setting the predetermined amount of time as a function of said information". As discussed in detail in Applicants' Appeal Brief, one purpose for this adjustment of the time interval is to make sure that persons who access the electronic publication for short periods of time are still exposed to advertisements. (Of course, the adjustment could involve either an increase or a decrease of the time interval). The Examiner's Answer notes that Reilly discloses the concept of tracking the amount of time which a user spends reading a particular content item. But this is different from the language of Claim 25, which deals with tracking the amount of time the user spends reading the electronic publication as a whole, rather than the time spent reading a particular content item.

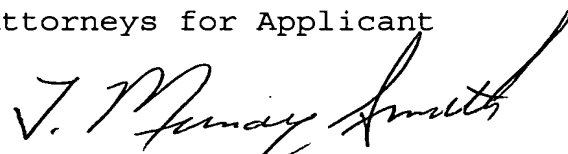
Another difference is that, even after determining how long the user read a particular content item, Reilly does not teach or suggest that this information could be used to adjust any time interval which affects when an advertisement will be displayed. In this regard, Claim 25 depends from Claim 7, and the discussion of Claim 7 in the Examiner's

Answer asserted that the "predetermined amount of time" in Claim 7 corresponds to the 30-second time interval which Reilly uses to display advertisements. Consequently, to properly meet the limitations of Claim 25, the Examiner's Answer would have to demonstrate that Reilly adjusts the 30-second time interval as a function of information representing the amount of time that a user spent reading the publication. The Examiner's Answer does not even state that this is the case, but instead asserts that tracking the time a user spends reading a content item is itself the act of "setting the predetermined amount of time as a function of such information". This is completely inconsistent with the assertion (in the portion of the Examiner's Answer dealing with Claim 7) that this same "predetermined amount of time" corresponds to the non-varying 30-second time interval of Reilly. Further, Applicants' Appeal Brief discusses in detail the internal operation of the Reilly system, and explains that Reilly does not contain anything which suggests that the 30-second time interval can be adjusted for any reason, much less as a function of information representing an amount of time which the user spent reading the electronic publication.

CONCLUSION

For the foregoing reasons, it is respectfully submitted that the arguments in the Examiner's Answer fail to demonstrate the unpatentability of Claims 7-8 and 24-26. For the reasons set forth above and in Applicant's Appeal Brief, it is respectfully submitted that the rejection of each of Claims 7-8 and 24-26 is erroneous, and Applicants request that the Board reverse the rejection of each of these claims.

Respectfully submitted,
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Enclosures: Copy of Cortright Decision

was also properly rejected. His intention to confuse undermines any claim of good faith, see *Cuban Cigar Brands, N.V. v. Upmann International, Inc.*, 457 F. Supp. 1090, 1099 [199 USPQ 193] (S.D.N.Y. 1978), and the Magistrate Judge found that Grottanelli would not be prejudiced if precluded from using his version of the bar-and-shield logo. Furthermore, Harley-Davidson has previously communicated its concern about earlier versions of Grottanelli's logo, and there is no evidence that Harley-Davidson was aware of Grottanelli's recent use of his current version of the logo.

For all of these reasons, Grottanelli was properly enjoined from using his current bar-and-shield logo and any mark that so resembles Harley-Davidson's trademarked logo as to be likely to cause confusion.

Conclusion

The judgment of the District Court is affirmed to the extent it enjoined Grottanelli's use of his bar-and-shield logo and reversed to the extent that it enjoined his use of the word "hog." No costs.

U.S. Court of Appeals Federal Circuit

In re Cortright

No. 98-1258

Decided January 19, 1999

PATENTS

1. Patentability/Validity — Specification — Enablement (§115.1105)

Board of Patent Appeals and Interferences improperly rejected claim directed to method of restoring hair growth on ground that specification does not enable one of ordinary skill in art to use invention commensurate with scope of claim, since board must give claims their broadest reasonable interpretation, but this interpretation must be consistent with one that those skilled in art would reach, since, in view of disclosures of other patents, one of ordinary skill would not construe claim term "restoring hair growth" to mean "returning user's hair to its original state," as board required, and since, as properly construed, claim is amply supported by written description, which includes dosing instructions which enable one of ordinary skill to practice claimed invention without need for any experimentation.

2. Patentability/Validity — Specification — Enablement (§115.1105)

Patent applicant claiming method of "offsetting the effects of lower levels of a male hormone being supplied by arteries to the papilla of the scalp hair follicles" was not required to prove cause of hair growth apparently resulting from application of ointment, used to soften cow udders, to human scalp, since inventor need not comprehend scientific principles on which practical effectiveness of invention rests, and since statements that physiological phenomenon was observed are not inherently suspect simply because underlying basis for observation cannot be predicted or explained; claim must nevertheless be rejected, since claim states that active agent in ointment reaches papilla, and since written description states that subjects observed hair growth after applying ointment to scalp, but does not disclose that anyone observed active ingredient in ointment reach papilla and offset effects of lower levels of male hormones.

Appeal from the U.S. Patent and Trademark Office, Board of Patent Appeals and Interferences.

Patent application of Joyce A. Cortright, serial no. 07/849,191. From decision sustaining rejection of application claims 1 and 15, applicant appeals. Affirmed in part, reversed in part, and remanded.

Joseph B. Taphorn, Poughkeepsie, N.Y., for appellant.

Scott A. Chambers, associate solicitor, Nancy J. Linck, solicitor, Albin F. Drost, deputy solicitor, and Linda Moncys Isacson, associate solicitor, U.S. Patent and Trademark Office, Arlington, Va., for appellee.

Before Mayer, chief judge, and Newman and Rader, circuit judges.

Mayer, C.J.

Joyce A. Cortright appeals the September 23 and November 28, 1997, decisions of the United States Board of Patent Appeals and Interferences sustaining the rejection of claims 1 and 15 of patent application Serial No. 07/849,191 under 35 U.S.C. § 112, ¶ 1 (1994). Because the board erred with respect to claim 1 but not claim 15, we affirm-in-part, reverse-in-part, and remand.

Background

Cortright's patent application, filed in 1992, concerns a method of treating baldness

by applying Bag Balm®, a commercially available product used to soften cow udders, to human scalp. Claims 1 and 15 are the only claims on appeal. Claim 1 recites a method of "treating scalp baldness with an antimicrobial to restore hair growth, which comprises rubbing into the scalp the ointment wherein the active ingredient 8-hydroxy-quinoline sulfate 0.3% is carried in a petrolatum and lanolin base." Claim 15 recites a method of "offsetting the effects of lower levels of a male hormone being supplied by arteries to the papilla of scalp hair follicles with the active agent 8-hydroxy-quinoline sulfate to cause hair to grow again on the scalp, comprising rubbing into the scalp the ointment having the active agent 8-hydroxy-quinoline sulfate 0.3% carried in a petrolatum and lanolin base so that the active agent reaches the papilla."

The examiner rejected the claims under 35 U.S.C. § 101 (1994) as lacking utility. According to the examiner, Cortright's statements of utility, namely, her claims of treating baldness, are suspect because "baldness is generally accepted in the art as being incurable . . ." The examiner, therefore, required clinical evidence to establish the claimed utility, which Cortright did not supply. Furthermore, with respect to claim 15's recitation of offsetting the effects of lower levels of a male hormone, Cortright "offered no proof that such an off-set occurs and has disclosed that this is only speculation." The examiner also rejected the claims under 35 U.S.C. § 102(a) (1994), arguing that the admitted prior art anticipates the claims because the written description discloses that Bag Balm® has been applied to human skin and the "scalp is the skin of the head." Cortright appealed these rejections to the Board of Patent Appeals and Interferences.

In its September 23, 1997, decision, the board reversed the section 101 rejection because the examiner did not set out sufficient reasons for finding Cortright's statements of utility incredible. It noted that "there is no per se requirement for clinical evidence to establish the utility of any invention" and the examples in Cortright's application are objective evidence. The board also reversed the section 102(a) rejection because although the prior art discloses the application of Bag Balm® to human skin, it does not disclose applying it to bald, human scalp.

Despite these reversals, Cortright did not prevail because the board found a new ground for rejecting the claims: that they are based on a non-enabling disclosure in violation of 35 U.S.C. § 112, ¶ 1. The board found that Cortright's written description does not

teach those of ordinary skill in the art how to make and use the claimed invention without undue experimentation because it "fails to provide any teachings as to the administration of Bag Balm® in a manner which (i) restore[s] hair growth (claim 1), or (ii) 'offset[s] the effects of lower levels of male hormone being supplied by arteries to the papilla of scalp hair follicles' (claim 15)." The board explained that Example 1 does not show that applying a teaspoon of Bag Balm® to the scalp daily for about one month "restored hair growth" and that Examples 2 and 3 do not disclose the amount of Bag Balm® to apply or how to restore hair growth. With respect to claim 15, the board found that the written description "merely surmis[es] that the active ingredient, 8-hydroxy-quinoline sulfate, even reaches the papilla," which would not enable one of ordinary skill to use the claimed method. Finally, the board observed that the breadth of the claims and the unpredictable nature of the art of hair growth aggravated its finding that those of ordinary skill in the art would not be able to practice the invention without undue experimentation.

Cortright requested reconsideration, which the board denied in a November 28, 1997, opinion. The board explained that claim 1 is not enabled because it claims "restor[ing] hair growth," which the board interpreted as requiring the user's hair "to return to its original state," that is, a full head of hair. Thus, the board's rejection was not based on complete non-enablement, as the original decision had implied, but on the claim not being commensurate with the scope of the disclosure. With respect to claim 15, the board maintained its general non-enablement rejection, adding that "there is no evidence of record that the resultant hair growth is due to (i) the stimulation of the papilla, and (ii) the offsetting [of] the effects of lower male hormone which is supplied by arteries to the papilla, and not due to some other mechanism(s)." Cortright appeals.

Discussion

"Whether making and using an invention would have required undue experimentation, and thus whether a disclosure is enabling under 35 U.S.C. § 112, ¶ 1 (1994), is a legal conclusion based upon underlying factual inquiries." *Johns Hopkins Univ. v. Cellpro, Inc.*, 152 F.3d 1342, 1354, 47 USPQ2d 1705, 1713 (Fed. Cir. 1998). Utility is a factual issue, which we review for clear error. See *Cross v. Iizuka*, 753 F.2d 1040, 1044 n.7, 224 USPQ 739, 742 n.7 (Fed. Cir. 1985); see

also *In re Zurko*, 142 F.3d 1447, 1449, 46 USPQ2d 1691, 1693 (Fed. Cir.), cert. granted, 119 S. Ct. 401 (1998).

Section 112, ¶ 1 provides:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

35 U.S.C. § 112, ¶ 1. A lack of enablement rejection under section 112, ¶ 1 is appropriate where the written description fails to teach those in the art to make and use the invention as broadly as it is claimed without undue experimentation. See *In re Vaeck*, 947 F.2d 488, 495-96, 10 USPQ2d 1438, 1444 (Fed. Cir. 1991).

This rejection takes several forms. The PTO will make a scope of enablement rejection where the written description enables something within the scope of the claims, but the claims are not limited to that scope. See Manual of Patent Examining Procedures ("M.P.E.P.") § 706.03(c), form ¶ 7.31.03 (Rev. 3, July 1997). This type of rejection is marked by language stating that the specification does not enable one of ordinary skill to use the invention commensurate with the scope of the claims. On the other hand, if the written description does not enable any subject matter within the scope of the claims, the PTO will make a general enablement rejection, stating that the specification does not teach how to make or use the invention. See M.P.E.P. § 706.03(c), form ¶ 7.31.02.

If the written description fails to illuminate a credible utility, the PTO will make both a section 112, ¶ 1 rejection for failure to teach how to use the invention and a section 101 rejection for lack of utility. See M.P.E.P. § 706.03(a), form ¶ 7.05.04. This dual rejection occurs because "[t]he how to use prong of section 112 incorporates as a matter of law the requirement of 35 U.S.C. § 101 that the specification disclose as a matter of fact a practical utility for the invention." *In re Ziegler*, 992 F.2d 1197, 1200, 26 USPQ2d 1600, 1603 (Fed. Cir. 1993). Thus, an applicant's failure to disclose how to use an invention may support a rejection under either section 112, ¶ 1 for lack of enablement as a result of "the specification's . . . failure to disclose adequately to one ordinarily

skilled in the art 'how to use' the invention without undue experimentation," or section 101 for lack of utility "when there is a complete absence of data supporting the statements which set forth the desired results of the claimed invention." *Envirotech Corp. v. Al George, Inc.*, 730 F.2d 753, 762, 221 USPQ 473, 480 (Fed. Cir. 1984); see also *In re Brana*, 51 F.3d 1560, 1564 n.12, 34 USPQ2d 1436, 1439 n.12 (Fed. Cir. 1995) (The "absence of utility can be the basis of a rejection under both 35 U.S.C. § 101 and § 112 ¶ 1."); *In re Fouche*, 439 F.2d 1237, 1243, 169 USPQ 429, 434 (CCPA 1971) ("[I]f [certain] compositions are in fact useless, appellant's specification cannot have taught how to use them.").

The PTO cannot make this type of rejection, however, unless it has reason to doubt the objective truth of the statements contained in the written description. See *Brana*, 51 F.3d at 1566, 34 USPQ2d at 1441 ("[T]he PTO has the initial burden of challenging a presumptively correct assertion of utility in the disclosure. Only after the PTO provides evidence showing that one of ordinary skill in the art would reasonably doubt the asserted utility does the burden shift to the applicant to provide rebuttal evidence sufficient to convince such a person of the invention's asserted utility.") (citations omitted); *In re Marzocchi*, 439 F.2d 220, 223, 169 USPQ 367, 369 (CCPA 1971) ("[A] specification disclosure which contains a teaching of the manner and process of making and using the invention in terms which correspond in scope to those used in describing and defining the subject matter sought to be patented must be taken as in compliance with the enabling requirement of the first paragraph of § 112 unless there is reason to doubt the objective truth of the statements contained therein which must be relied on for enabling support."). The PTO may establish a reason to doubt an invention's asserted utility when the written description "suggest[s] an inherently unbelievable undertaking or involve[s] implausible scientific principles." *Brana*, 51 F.3d at 1566, 34 USPQ2d at 1441; see also *In re Eltgroth*, 419 F.2d 918, 164 USPQ 221 (CCPA 1970) (control of aging process). Treating baldness was once considered an inherently unbelievable undertaking. See *In re Ferens*, 417 F.2d 1072, 1074, 163 USPQ 609, 611 (CCPA 1969); *In re Oberwener*, 115 F.2d 826, 829, 47 USPQ 455, 458 (CCPA 1940).

Since then, however, treatments for baldness have gained acceptance. Rogaine®

(minoxidil) and Propecia® are recognized as effective in treating baldness. See Doug Levy, *FDA Approves New Treatment for Males Fighting Baldness*, USA Today, Dec. 23, 1997, at A1; *Pharmaceutical Companies Are Brushing up on Hair-Restorers Medicine*, Los Angeles Times, Jun. 6, 1996, at D12. In addition, the PTO has granted approximately one hundred patents on methods of treating baldness. Some of these patents disclose applying an electric current to the scalp, see, e.g., U.S. Pat. No. 5,800,477, whereas others teach ingesting substances orally or applying a salve of some kind to the scalp, see, e.g., U.S. Pat. No. 5,777,134. Some patents disclose the active ingredient in chemical terms. See, e.g., U.S. Pat. No. 5,777,134 (5 alpha-reductase inhibitor); U.S. Pat. No. 5,767,152 (cyanocarboxylic acid derivatives); U.S. Pat. No. 4,139,619 (formula for minoxidil). Other patents, however, disclose baldness remedies made from more mundane materials, such as Dead Sea mud (U.S. Pat. No. 5,679,378); emu oil (U.S. Pat. No. 5,744,128); potato peelings and lantana leaves (U.S. Pat. No. 5,665,342); and vitamin D3 and aloe (U.S. Pat. No. 5,597,575).*

Claim 1

With respect to claim 1, the examiner made a lack of utility rejection under section 101 arguing that the asserted statements of utility were incredible in light of Cortright's failure to prove utility with clinical evidence. The board first appeared to make a generic enablement rejection under section 112, ¶ 1, focusing on "the lack of any teachings or guidance as to how to perform the claimed methods and the unpredictable nature of the art of restoring hair growth." Upon reconsideration, however, the board clarified that its rejection pertained to scope. It took the position that the broadest interpretation of "restore hair growth" requires the application of Bag Balm® to "return" the user's hair "to its original state," that is, a full head of hair. Because Cortright's written description discloses results of only "three times as much hair growth as two months earlier," "fillin-

g-in some," and "fuzz," the board reasoned, it does not support the breadth of the claims.

Although the PTO must give claims their broadest reasonable interpretation, this interpretation must be consistent with the one that those skilled in the art would reach. See *In re Morris*, 127 F.3d 1048, 1054, 44 USPQ2d 1023, 1027 (Fed. Cir. 1997) ("[T]he PTO applies to the verbiage of the proposed claims the broadest reasonable meaning of the words in their ordinary usage as they would be understood by one of ordinary skill in the art . . ."); *In re Bond*, 910 F.2d 831, 833, 15 USPQ2d 1566, 1567 (Fed. Cir. 1990) ("It is axiomatic that, in proceedings before the PTO, claims in an application are to be given their broadest reasonable interpretation consistent with the specification, . . . and that claim language should be read in light of the specification as it would be interpreted by one of ordinary skill in the art.") (emphasis added); see also M.P.E.P. § 2111.01 ("[T]he words of a claim . . . must be read as they would be interpreted by those of ordinary skill in the art."). Prior art references may be "indicative of what all those skilled in the art generally believe a certain term means . . . [and] can often help to demonstrate how a disputed term is used by those skilled in the art." *Vitronics Corp. v. Conceptronic, Inc.*, 90 F.3d 1576, 1584, 39 USPQ2d 1573, 1578-79 (Fed. Cir. 1996). Accordingly, the PTO's interpretation of claim terms should not be so broad that it conflicts with the meaning given to identical terms in other patents from analogous art. Cf. *Morris*, 127 F.3d at 1056, 44 USPQ2d at 1029 (approving the board's definition of claim terms consistent with their definitions in CCPA cases).

The PTO's construction of "restore hair growth" in the present case is inconsistent with its previous definitions. U.S. Pat. Nos. 5,695,748 ("the '748 patent"), 5,679,378 ("the '378 patent"), and 5,578,599 ("the '599 patent"), for example, each recite a method of restoring hair growth. The '748 patent recites:

A process . . . for restoring hair growth which comprises the steps of:

(a) applying a cleansing mixture of sage, aloe and nettles to the hair and scalp in an amount and for a period of time sufficient to effect cleansing and then removing same;

(b) applying a treatment mixture of castor oil, shea butter, wheat germ oil and white iodine to the hair and scalp in an amount and for a period of time effective to treat the hair and scalp; and

(c) heating the treatment mixture on the hair and scalp for a period of time

* See also U.S. Pat. No. 5,674,510 (salve of garlic powder, brewer's yeast, grapefruit juice, acetic acid, and kelp); U.S. Pat. No. 5,750,108 (salves of tea tree oil; chlorine dioxide and acidic solution; saw palmetto berry extract); U.S. Pat. No. 5,695,748 (salves of sage, aloe, and nettles; castor oil, shea butter, wheat germ oil, and white iodine); U.S. Pat. No. 5,494,667 (salve of pine extract and bamboo extract or Japanese apricot).

sufficient to promote penetration of the treatment mixture into the hair and scalp and then removing the treatment mixture.

'748 patent (Claim 1) (emphasis added). The accompanying disclosure reveals five-examples in which women and men practiced the claimed method. One "subject's hair began to fill-in in the previously balding and thinning areas and the subject . . . achieved a significant degree of improvement . . ." *Id.* (Example 3). For another subject, "there [was] a partial filling-in and restoration of the bald spot on the top of the subject's head." *Id.* (Example 4). A third subject noticed that he had "fifty percent more hair in both the frontal and middle sections of his scalp." *Id.* (Example 6).

The '378 patent recites:

The method for *the restoration of hair growth* . . . which comprises the steps of:
 applying a finite layer of Dead Sea mud to the body surface area to be treated for the restoration of hair growth . . . ;
 allowing said layer to be undisturbed for a finite time; and
 rinsing said layer from said surface area.

'378 patent (Claim 1) (emphasis added). The accompanying disclosure reveals an example in which a man noticed "[m]any sprouts of . . . new hair" after practicing the method for six weeks and ultimately "approximately 25% regrowth over the entire previously bald scalp." *Id.* (Example 1). Another example discloses the results of a five-month study of men who practiced the invention. In this study, the participants noticed an increase in the number of new hairs on their scalp per month, which varied from 0 to 22. Although some participants reported significant growth of hair, there was no evidence that the claimed method resulted in full heads of hair. *See id.* (Example 3).

The '599 patent recites:

A method for increasing or *restoring hair growth* over the sole administration of a topical minoxidil treatment comprising the concomitant administration of:

a topical preparation of minoxidil in an amount sufficient to promote hair growth, applied to an area of skin where hair growth is to be increased or restored; and
 an oral administration of

17 beta-(N-tert-butylcarbamoyl)-4-aza-5-alpha-androst-1-en-3-one in an amount from about 0.05 to about 0.03 mg/Kg to promote hair growth such that hair growth is increased over the administration of minoxidil alone.

'599 patent (Claim 1) (emphasis added). The examples disclosed by the patent show

that subjects practicing this method experienced increased growth of hair compared to those using minoxidil alone. Nevertheless, the patent does not show that this method completely cured baldness by producing a full head of hair.

[1] In light of these disclosures, one of ordinary skill would not construe "restoring hair growth" to mean "returning the user's hair to its original state," as the board required. To the contrary, consistent with Cortright's disclosure and that of other references, one of ordinary skill would construe this phrase as meaning that the claimed method increases the amount of hair grown on the scalp but does not necessarily produce a full head of hair. Properly construed, claim 1 is amply supported by the written description because Example 1 discloses the amount of Bag Balm® to apply (about one teaspoon daily) and the amount of time (about one month) in which to expect results. These dosing instructions enable one of ordinary skill to practice the claimed invention without the need for any experimentation. Therefore, we reverse the board's rejection of claim 1.

Claim 15

With respect to claim 15, the examiner made a lack of utility rejection under section 101 because Cortright "offered no proof that such an off-set occurs and has disclosed that this is only speculation." Although the board purported to reject the examiner's section 101 rejection of claim 15, its new rejection under section 112, ¶ 1 suggests that it did not disagree with the examiner entirely. The board stated that because the written description "merely 'surmises' " that the active ingredient, 8-hydroxy-quinoline sulfate reaches the papilla and offsets the lower levels of male hormone, it did not teach how to use the method of claim 15. It observed further that the written description fails to provide a working example of the subject matter of claim 15 or any evidence that "the effects of lower male hormone levels have been offset [by the claimed method], or even if Bag Balm® has reached the papilla." The board also faulted Cortright for not producing evidence that "the resultant hair growth is due to (i) the stimulation of the papilla, and (ii) the offsetting [of] the effects of lower male hormone which is supplied by arteries to the papilla, and not due to some other mechanism(s)." Moreover, it found that the written description indicates that "the underlying basis for the observed physiological phenomenon can not [sic] be predicted from the results obtained," and that

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Creation date: 06-13-2005
Indexing Officer: SBOUTAH - Soutchay Boutah
Team: OIPEBackFileIndexing
Dossier: 09456647

Legal Date: 04-03-2002

No.	Doccode	Number of pages
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